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SOURCE

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| <u>Crop</u> | <u>Common name</u> | <u>Order</u> | <u>Family</u> | <u>Scientific name</u> |
|--------------|------------------------|--------------|---------------|--|
| Rice | Rice borer | Lepidoptera | Pyralidae | Schoenobius insertellus |
| | Rice hispa | Coleoptera | Chrysomelidae | Hispa similis |
| | Lema beetle | " | " | Lema oryzae |
| | Leaf hopper | Hemiptera | Jassidae | Nilaparvata oryzae |
| | Leaf roller | Lepidoptera | Pyralidae | Sogota furcifera Cnaphalocrocis medinalis |
| Sweet potato | Sweet potato beetle | Coleoptera | Curculionidae | Cylas formicarius |
| | Sweet potato horn worm | Lepidoptera | Sphingidae | Herse convolvuli |
| Sugar cane | Wireworm | Coleoptera | Elateridae | Melanotus tamsuyensis |
| | June bug | " | Scarabaeidae | Allissonotum impressicollis |
| | Sugar cane borer | Lepidoptera | Pyralidae | Chilo infuscatellus |
| | | " | " | Scirpophaga nivella |
| | | " | " | Diatraea venosata |
| | | " | Eucosmidae | Eucosma schistaceana |
| | Woolly aphis | Hemiptera | Aphididae | Cerotovacuna lanigera |
| | Sugar cane borer | Lepidoptera | Noctuidae | Sesamia inferens |
| Pineapple | Mealy bug | Hemiptera | Coccidae | Pseudococcus brevipes |
| Banana | Banana weevil | Coleoptera | Curculionidae | Cosmopolites sordidus |
| | Fruit fly | Diptera | Trypetidae | Chaetodacus cucurbitae |
| Tobacco | Aphis | Homoptera | Aphididae | Myzus persicae |
| | Cut worm | Lepidoptera | Noctuidae | Agrotis ypsilon |
| | Bud worm | " | " | Chloridea assulta |

[illegible]

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| <u>Crop</u> | <u>Common name</u> | <u>Order</u> | <u>Family</u> | <u>Scientific name</u> |
|------------------|--------------------|--------------|---------------|--------------------------------|
| Citrus fruits | Fruit fly | Diptera | Trypetidae | Chaetodacus ferrugineus |
| | Trunk borer | Coleoptera | Cerambycidae | Melanauster chinensis |
| | Scale | Homoptera | Coccidae | Chrysomphalus aonidum |
| | Mealy bug | " | " | Icerya purchasi |
| | Scale | " | " | Lepidosaphes gloverii |
| Vegetable | Leaf beetle | Coleoptera | Chrysomelidae | Phaedon brassicas |
| | Flea beetle | " | " | Phyllotrata vittata |
| | Army worm | Lepidoptera | Noctuidae | Prodenia litura |
| | Aphis | Homoptera | Aphididae | Myzus persicae |
| | " | " | " | Rhopalosiphum pseudo-brassicae |
| Melon | Fruit fly | Diptera | Trypetidae | Chaetodacus cucurbitae |
| | Leaf beetles | Coleoptera | Chrysomelidae | Aulacophora similis |
| Tea | | Lepidoptera | Psychidae | Clania preyeri |
| | | " | Bombycidae | Andraca bipunctata |
| | | " | Liparidae | Euproctis pseudoconsperas |
| | | " | Gelechiidae | Sitotroga Cerealella |
| Stored foodstuff | | Coleoptera | Tenebrionidae | Tenebrionidae mauritanicus |
| | | " | Tenebrionidae | Tribolium ferruginum |
| | | " | Curculionidae | Sitophilus oryzae |

2. Surveys have shown that the principal agricultural crops of Taiwan suffer a 16% annual loss due to insect damage. The following control methods are in use now [1953] in Taiwan:

(a) Biological control Methods

The introduction of the Australian lady beetle (*Rodolia cardinalis*) to destroy the cotton cushion scale (*Icerya purchasi*) in citrus fruit and the introduction of the large lady beetle (*Synonyoba grandis*) to destroy the wooly aphis in sugar cane have been largely successful. Parasite wasps are currently being introduced to control sugar cane borers.

(b) Chemical Control Methods

10% DDT or BHC powder is dusted on the rice paddy fields to control rice hispa, lema beetle, rice leaf hopper, and rice leaf roller. A mixture of 1% BHC powder with the soil is effective in controlling soil insects in sugar cane. Rotenone emulsion is sprayed to control vegetable insects and aphids of other crops. Citrus scale is controlled by a spray of resin wash and lime sulphur. Mealy aphids of pineapple are fumigated with methyl bromide. Insects attacking stored foodstuff are kept under control by spraying a pyrenone emulsion of 1.25% DDT.

3. As yet no effective methods have been devised to control rice borers, which cause an annual 8% crop damage, banana curculis, fruit flies, or tea tree insects.

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